

Serial No. 10/736,650
Docket No. SUPERCON 23
Amendment B UNDER RULE 116
and Telephone Interview Summary

AMENDMENTS TO THE CLAIMS:

Kindly amend claim 1 as shown below.

This listing of claims will replace all prior versions and listings of claims in the

Application:

Claim 1 (currently amended): A process for making superconducting material useful for forming electrolytic devices comprising the steps of:

- a) establishing multiple niobium or tantalum components in a primary billet of a ductile material;
- b) working the primary billet to a series of reduction steps to form said niobium or tantalum components into elongated elements;
- c) cutting the elongated elements from step b) and forming the cut elements into a stack around a metal core;
- d) surrounding the stack of cut and stacked elements from step c) with a porous confining layer to form a secondary billet;
- e) working the secondary billet from step d) through a series of reduction steps[;], including twisting and rolling, to flatten the elements into thin ribbon with an Aspect Ratio of greater than 5:1;
- f) cutting the worked billet from step e) into sections; and
- g) leaching the core and sheath at least in part.

Claim 2 (original): The process of claim 1, wherein said leaching is in an acid leach.

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Claim 3 (original): The process of claim 1, wherein said leaching step is in a liquid metal bath.

Claim 4 (original): The process of claim 3, wherein said liquid metal bath comprises molten magnesium.

Claim 5 (previously presented): The process of claim 1, wherein said porous confining layer contains a gap that renders the confining layer circumferentially discontinuous, but overlapping.

Claim 6 (previously presented): The process of claim 1, wherein said porous confining layer contains a gap that renders the confining layer circumferentially discontinuous.

Claim 7 (original): The process of claim 1, wherein several separate segments are used to construct a multi anode capacitor assembly.

Claim 8 (original): An electronic device made from the superconductor material formed by the process of claim 1.

Claim 9 (original): An electrolytic capacitor made from the superconductor material formed by the process of claim 1.

Claim 10 (previously presented): The process of claim 1, wherein said metal core consists of a single metal rod.

Claim 11 (previously presented): The process of claim 10, wherein said single metal rod has a cross-sectional area not exceeding 20% of said secondary billet before working.

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Claim 12 (previously presented): The process of claim 1, wherein the Aspect Ratio is

40:1.

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